

Amendments to the Claims

1. (Cancelled)

2. (Currently Amended) The method of Claim 3, wherein determining, in the action plug-ins, one or more actions based on the ~~associated~~ markup language data comprises:

for each markup language element of the ~~associated~~ markup language data, parsing a namespace library for equivalent markup language elements;

obtaining one or more actions associated with the equivalent markup language elements for displaying with the plurality of actions received from the plurality of action plug-ins.

3. (Currently Amended) A computer-readable medium which stores a set of instructions which when executed performs a method for creating, editing and/or viewing an electronic document, actions on a string of text or data in the electronic document, the method comprising:

receiving a text string that includes at least one annotated portion and at least one unannotated portion ~~annotated~~ with markup language data in ~~an action~~ a recognizer dynamic link library (DLL);

parsing markup language data associated with the at least one annotated portion to assist the recognizer DLL to determine one or more labels for the at least one unannotated portion of the text string;

transmitting the text string and the ~~associated~~ markup language data associated with the least one annotated and the at least one unannotated portions to a plurality of action plug-ins;

determining, in the action plug-ins, one or more actions based on the ~~associated~~ markup language data;

passing the one or more actions to an application program module for displaying the one or more actions in association with the text string; and

displaying the one or more actions in association with the text string~~[[;]]~~ .

~~wherein for any portion of the text string not annotated with markup language data the method further comprises:~~

- ~~—— receiving the text string in a recognizer dynamically linked library (DLL);~~
- ~~—— receiving markup language data associated with the text string in the recognizer dynamically linked library;~~
- ~~parsing the associated markup language data to assist the recognizer DLL to determine one or more labels for the text string; and~~
- ~~—— transmitting the one or more labels and the associated markup language data to the application program module for passing to the action DLL.~~

4. (Currently Amended) The method of Claim 3, further comprising:

prior to transmitting the one or more labels and the ~~associated~~ markup language data to the application program module for passing to the action (DLL) and after all unannotated text is recognized, transmitting the text string, the ~~associated~~ markup language data and the one or more labels back to the recognizer DLL; and

parsing the string of text, the ~~associated~~ markup language data and the one or more labels to determine a one or more labels for the text string not previously determined for the text string.

5. (Previously Presented) The method of Claim 3, wherein the step of parsing the text string to determine one or more labels comprises:

comparing the text string with a plurality of stored text string with an associated stored label to determine a match;

if a the text string matches a stored text string with an associated label, then labeling the text string with the associated stored label of the matched stored text string;

comparing the elements of the markup language data associated with the text string with a plurality of stored markup language elements associated with associated stored labels to determine a match; and

if a one or more markup language elements associated with the text string matches one or more stored markup language elements with associated stored labels, then

labeling the text string with the associated stored label of the matched one or more markup language elements.

6. (Cancelled)

7. (Previously Presented) The method of Claim 3, further comprising modifying the content of an electronic document to reflect the one or more labels.

8. (Previously Presented) The method of Claim 7, further comprising:
causing the application program module to fire an event within an object model of the application program module;
causing software instructions associated with the event to be executed when at least one of the plurality of labels is determined.

9. (Previously Presented) The method of Claim 3, further comprising examining the content of the electronic document surrounding the text string to aid in parsing the text string to determine a plurality of labels.

10. (Previously Presented) The method of Claim 3, wherein the markup language is the Extensible Markup Language (XML).

11. (Currently Amended) A method for labeling a string of text in an electronic document as the electronic document is created in an application program module, the method comprising ~~the steps of~~:

as a string of text having an associated one or more Extensible Markup Language (XML) elements is entered into the electronic document, determining whether the string of text matches one of a plurality of stored strings;

if so, then designating a label associated with the matched stored string for application to the entered string of text;

if the string of text does not match one of a plurality of stored strings, determining whether the one or more XML elements associated with the string of text is associated with a label for use with the entered string of text utilizing at least one label associated with another string in the electronic document; and

if so, then designating a label associated with the one or more XML elements for application to the entered string of text.

12. (Original) The method of Claim 11, further comprising:

if a label associated with the matched stored string is designated for application to the entered string of text, determining a set of actions associated with the label associated with the matched stored string; and

if a label associated with the one or more XML elements is designated for application to the entered string of text, determining a set of actions associated with the label associated with the one or more XML elements.

13. (Original) The method of Claim 12, whereby determining a set of actions associated with the label associated with the one or more XML elements, further comprises:

for each label associated with the one or more XML elements, parsing a namespace library for equivalent markup language elements;

obtaining zero or more actions associated with the equivalent XML elements for combining with the set of actions associated with the label associated with the matched stored string.

14. (Original) The method of Claim 11, further comprising displaying an indication indicating that the label has been found for the string of text.

15. (Original) The method of Claim 13, further comprising the steps of:

determining that a user has selected the string of text; and
in response, displaying the combined set of actions to the user.

16. (Original) The method of Claim 15, further comprising the steps of:

receiving an indication that one of the plurality of actions has been selected; and
in response to receiving an indication that one of the plurality of actions has been selected, then causing the application program module to execute the selected action.

17. (Currently Amended) ~~A computer-readable medium having computer-executable instructions for performing the steps received in Claim 16~~ The method of claim 11, further comprising:

determining whether the one or more XML elements associated with the string of text is associated with a label for use with the entered string of text based on a label associated with another string of text adjacent to the string of text.

18. (Original) The method recited in Claim 16, wherein the application program module executes the selected action by determining whether an action plug-in dynamically linked library assigned to the action is available; and

if so, then receiving instructions from the action dynamically linked library assigned to the selected action.

19. (Original) The method recited in Claim 18, further comprising the steps of:

if an action plug-in dynamic link library is not available, then using a Uniform Resource Locator assigned to the action to navigate to a Web site and download the action plug-in dynamic link library.

20. (Currently Amended) The method of claim 17, wherein the label associated with the string of text is an “address” label and the label associated with the other string of text is a “ZIP code” label.

21. (Currently Amended) A system for providing helpful actions on a string of text in an electronic document as the string is entered into the electronic document, the system comprising:

a memory storage; and

a processing unit coupled to the memory storage, wherein the processing unit is configured to execute:

an application program module for creating the electronic document;

an action dynamically linked library connected to the application program module operative to provide one or more actions associated with one or more markup language elements applied to the string of text;

a namespace library associated with the application program module for providing one or more equivalent markup language elements that have been designated as equivalent to the one or more markup language elements applied to the string of text in the electronic document;

at least one recognizer dynamically linked library for providing semantic labeling to one or more portions of the string of text based on the one or more markup language elements applied to the string of text and based on one or more markup language elements associated with other strings of text in the electronic document; and

wherein the action dynamically linked library is further operative to provide additional one or more actions associated with the one or more equivalent markup language elements.

22. (Original) The system of Claim 21, wherein
the recognizer dynamically linked library is operative
to receive the string of text;

to receive the one or more markup language elements applied to the string of text in the recognizer dynamically linked library;

to transmit the string of text and associated markup language elements to a plurality of recognizer plug-ins;

the plurality of recognizer plug-ins being operative

to parse the string of text to determine a plurality of labels;

to parse the associated markup language elements to assist each of the plurality of recognizer plug-ins to determine a plurality of labels for the string of text;

to transmit the plurality of labels to the recognizer dynamically linked library; and

the recognizer dynamically linked library being further operative to transmit the plurality of labels and the associated markup language data to the application program module.

23. (Previously Presented) The system of Claim 22,

wherein recognizer dynamically linked library is further operative prior to transmitting the plurality of labels from the recognizer plug-ins to the recognizer dynamically linked library, to transmit the string of text, the associated markup language elements and the plurality of labels back to the plurality of recognizer plug-ins; and

the plurality of recognizer plug-ins being further operative to parse the string of text, the associated markup language elements and the plurality of labels to determine a plurality of labels for the string of text not previously determined for the string of text.